

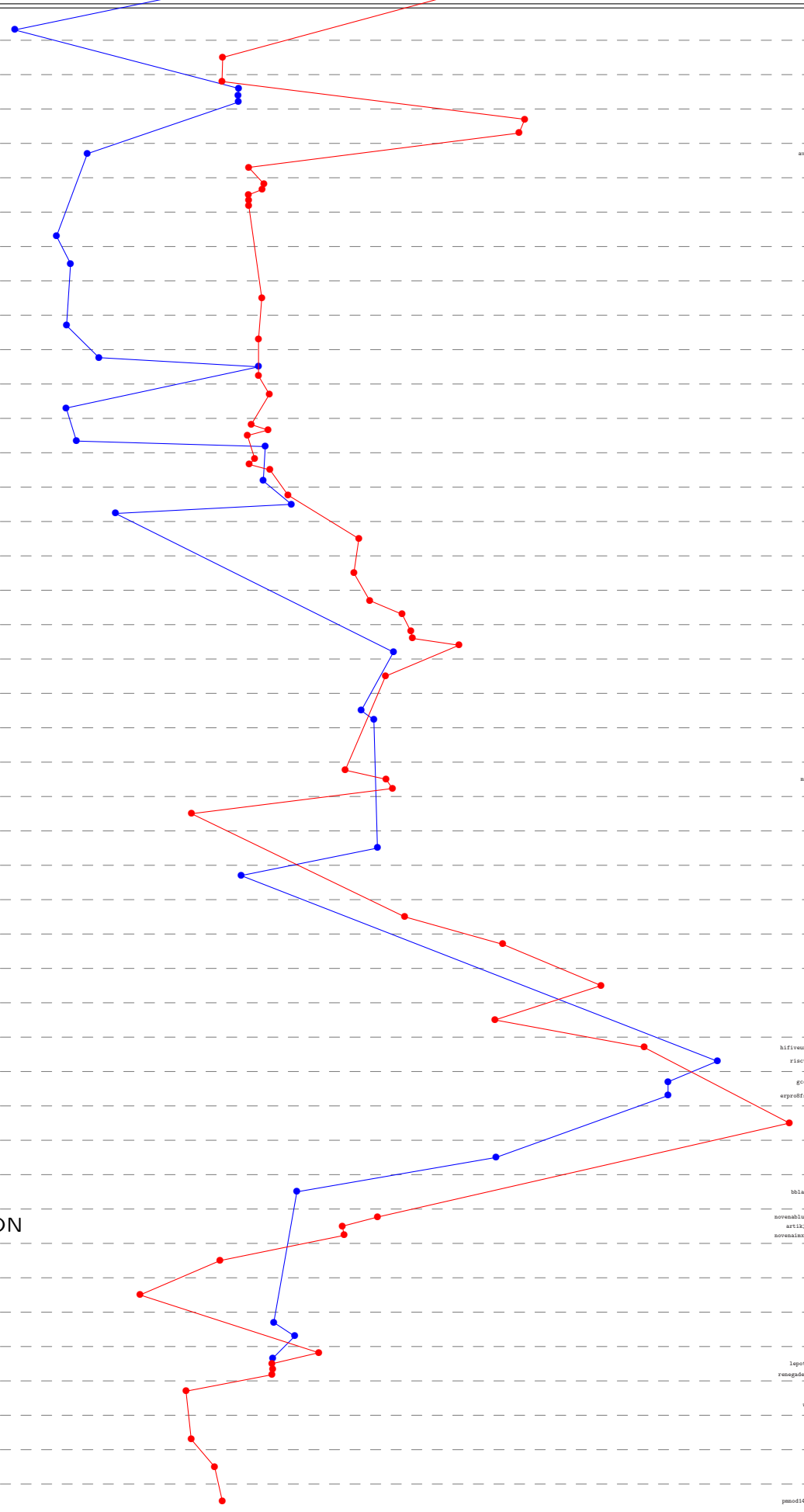
crypto_aead
cba5

implementations

amd64 Zen3
amd64 Zen2
amd64 Zen
amd64 KnLanding
amd64 CascadeLake
amd64 SL+512x2
amd64 IceLake
amd64 CometLake
amd64 CannonLake
amd64 CoffeeLake
amd64 KabyLake
amd64 Skylake
amd64 BW+AES
amd64 HW+AES
amd64 IB+AES
amd64 SB+AES
amd64 Sandy Bridge
amd64 Piledriver
amd64 Bulldozer
amd64 Westmere
amd64 C2 65nm
amd64 K10 32nm
amd64 K10 45nm
amd64 K10 65nm
amd64 Airmont
amd64 Goldmont
amd64 K8
amd64 Bobcat
amd64 Atom
ppc32 G3
riscv64 U54
mips32 Oocteon II
armeabi Armada
armeabi Cortex-A7
armeabi Cortex-A8
armeabi Cortex-A9+NEON
armeabi Cortex-A15
aarch64 X-Gene
aarch64 A53
aarch64 A53+crypto
aarch64 A57+crypto
aarch64 A72
aarch64 A72+crypto
aarch64 ThunderX2

T:ref

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beelink: 6 x 4062MHz; 2021 AMD Ryzen 5 5600U; amd64; Zen3 (a50f00); supercop-20221122
zen3: 16 x 3400MHz; 2020 AMD Ryzen 9 5950X; amd64; Zen3 (a20f10); supercop-20220213
gej1346: 64 x 2000MHz; 2019 AMD EPYC 7702; amd64; Zen2 (830f10); supercop-20191017
ryzen: 8 x 2994MHz; 2017 AMD Ryzen 7 1700; amd64; Zen (800f11); supercop-20170904
rubat7: 8 x 3000MHz; 2017 AMD Ryzen 7 1700; amd64; Zen (800f11); supercop-20220606
rubat6: 6 x 3200MHz; 2017 AMD Ryzen 5 1600; amd64; Zen (800f11); supercop-20220606
rubat3: 4 x 3100MHz; 2017 AMD Ryzen 3 1200; amd64; Zen (800f11); supercop-20200906
gej1291: 68 x 1400MHz; 2016 Intel Xeon Phi 7250; amd64; KnLanding (50671); supercop-20180818
gej1154: 64 x 1300MHz; 2016 Intel Xeon Phi 7210; amd64; KnLanding (50671); supercop-20170228
avx512aath: 18 x 3000MHz; 2019 Intel Core i9-10900XE; amd64; CascadeLake (50657); supercop-20210126
pmno876: 20 x 2500MHz; 2019 Intel Xeon Gold 6248; amd64; CascadeLake (50657); supercop-20191017
aanay1024: 18 x 2700MHz; 2017 Intel Xeon Gold 6150; amd64; SL+512x2 (50654); supercop-20170804
phl: 6 x 3500MHz; 2017 Intel Core i7-7800X; amd64; SL+512x2 (50654); supercop-20181113
pmno903: 20 x 2400MHz; 2017 Intel Xeon Gold 6148; amd64; BW+AES (50654); supercop-20191017
gej1548: 40 x 2400MHz; 2017 Intel Xeon Gold 6148; amd64; SL+512x2 (50654); supercop-20191017
gej1338: 32 x 2100MHz; 2017 Intel Xeon Gold 6140; amd64; SL+512x2 (50654); supercop-20191017
icelake2: 4 x 1000MHz; 2019 Intel Core i3-1035G1; amd64; IceLake (706e5); supercop-20221008
icelake: 4 x 1100MHz; 2020 Intel Core i5-1030NG7; amd64; IceLake (706e5); supercop-20200826
comet: 2 x 2100MHz; 2019 Intel Core i3-10110U; amd64; CometLake (806e); supercop-20221026
canon: 2 x 2200MHz; 2018 Intel Core i3-8121U; amd64; CannonLake (60663); supercop-20190910
r2400: 4 x 3300MHz; 2018 Intel Xeon E-2124; amd64; CoffeeLake (906ea); supercop-20221019
bitvis: 6 x 3200MHz; 2017 Intel Core i7-8700; amd64; CoffeeLake (906ea); supercop-20190910
shorthera: 2 x 2400MHz; 2017 Intel Core i3-7100; amd64; KabyLake (806d9); supercop-20221122
kiwoha: 4 x 3000MHz; 2017 Intel Xeon E3-1220 v6; amd64; KabyLake (906d9); supercop-20220606
intelauic8: 4 x 3100MHz; 2018 Intel Core i7-8090G; amd64; KabyLake (906d9); supercop-20191017
saad: 2 x 3300MHz; 2015 Intel Pentium G4400; amd64; Skylake (506c3); supercop-20171218
saaba: 4 x 3000MHz; 2015 Intel Xeon E3-1220 v5; amd64; Skylake (506c3); supercop-20221122
gej1441: 28 x 2400MHz; 2016 Intel Xeon E5-2680 v4; amd64; BW+AES (406f1); supercop-20180818
aanay087: 14 x 2400MHz; 2016 Intel Xeon E5-2680 v4; amd64; BW+AES (406f1); supercop-20170228
gej1122: 28 x 2400MHz; 2016 Intel Xeon E5-2680 v4; amd64; BW+AES (406f1); supercop-20171020
beelink8: 8 x 1900MHz; 2015 Intel Xeon E3-1220 v4; amd64; BW+AES (406f1); supercop-20221122
beelink9: 8 x 1100MHz; 2016 Intel Xeon E3-1220 v4; amd64; BW+AES (406f1); supercop-20221122
gej1462: 20 x 2300MHz; 2014 Intel Xeon E5-2650 v3; amd64; HW+AES (30627); supercop-20180818
gej1202: 24 x 2500MHz; 2014 Intel Xeon E5-2680 v3; amd64; HW+AES (30627); supercop-20171020
rubat9: 12 x 2500MHz; 2014 Intel Xeon E5-2680 v3; amd64; HW+AES (30627); supercop-20221122
titand: 4 x 3500MHz; 2013 Intel Xeon E5-1275 V2; amd64; HW+AES (306c3); supercop-20221122
h3p9: 4 x 3100MHz; 2013 Intel Xeon E3-1220 v2; amd64; HW+AES (306c3); supercop-20221122
aanay113: 12 x 2700MHz; 2013 Intel Xeon E5-2697 v2; amd64; IB+AES (306c4); supercop-20180818
hydra8: 4 x 3500MHz; 2012 Intel Xeon E3-1275 V2; amd64; IB+AES (306a9); supercop-20221122
hedera: 4 x 2500MHz; 2012 Intel Xeon E3-1265L V2; amd64; IB+AES (306a9); supercop-20210326
robin281: 8 x 2600MHz; 2012 Intel Xeon E5-4650L; amd64; SB+AES (206d7); supercop-20170228
h6aandy: 2 x 2100MHz; 2011 Intel Core i3-2310M; amd64; Sandy Bridge (206a7); supercop-20200618
hydra9: 2 x 3800MHz; 2012 AMD A10-5800K; amd64; Piledriver (610f01); supercop-20171218
h3trinity: 2 x 2000MHz; 2012 AMD A10-4655M; amd64; Piledriver (610f01); supercop-20200618
babbar: 4 x 4000MHz; 2012 AMD FX-8350; amd64; Bulldozer (600f20); supercop-20171218
calvin: 4 x 4000MHz; 2012 AMD FX-8350; amd64; Bulldozer (600f20); supercop-20171218
hydra5: 4 x 3100MHz; 2011 AMD FX-8120; amd64; Bulldozer (600f20); supercop-20171218
aberr14: 4 x 4000MHz; 2012 AMD FX-8350; amd64; Bulldozer (600f20); supercop-20220606
glywa: 2 x 3300MHz; 2010 Intel Core i5-650; amd64; Westmere (20652); supercop-20170105
katana: 2 x 2137MHz; 2006 Intel Core 2 Duo E6400; amd64; C2 65nm (6f6); supercop-20170105
nargaux: 4 x 2404MHz; 2007 Intel Core 2 Quad Q6600; amd64; C2 65nm (6f6); supercop-20221122
latour: 4 x 2394MHz; 2007 Intel Core 2 Quad Q6600; amd64; C2 65nm (6f6); supercop-20201130
hydra5: 4 x 2900MHz; 2011 AMD A8-3850; amd64; K10 32nm (300f10); supercop-20191221
hydra6: 6 x 3300MHz; 2010 AMD Phenom II X6 1100T; amd64; K10 45nm (100f00); supercop-20171218
norstagat: 4 x 3200MHz; 2009 AMD Phenom II X4 955; amd64; K10 45nm (100f42); supercop-20170904
h3wo: 1 x 1700MHz; 2010 AMD Athlon II Neo K125; amd64; K10 45nm (100f63); supercop-20170105
gcc16: 8 x 2194MHz; 2008 AMD Opteron 8354; amd64; K10 65nm (100f23); supercop-20171218
mcuacc: 4 x 1600MHz; 2015 Intel Pentium N3700; amd64; Airmont (406c3); supercop-20221122
voodea: 4 x 1500MHz; 2016 Intel Celeron J3455; amd64; Goldmont (506c9); supercop-20221122
scv1M3n1: 16 x 2100MHz; 2017 Intel Atom C3955; amd64; Goldmont (506f1); supercop-20191017
asac: 2 x 2000MHz; 2006 AMD Athlon 64 X2; amd64; K8 (40fb2); supercop-20170105
b3Bobca: 2 x 1650MHz; 2011 AMD G-T56M; amd64; Bobcat (500f10); supercop-20171218
h4e80: 2 x 1650MHz; 2011 AMD E-450; amd64; Bobcat (500f20); supercop-20200618
h3lata: 2 x 1866MHz; 2011 Intel Atom D2500; amd64; Atom (306f1); supercop-20200618
nintendovillainuzg: 1 x 729MHz; 2006 IBM PowerPC Broadway; ppc32; G3 (G3); supercop-20191221
h3fiveuaashadriacv: 4 x 1400MHz; 2017 SiFive Freedom U540; riscv64; U54 (sfive,u54-mc); supercop-20191221
riscvuaashad800: 4 x 1000MHz; 2017 SiFive Freedom U540; riscv64; U54 (sfive,u54-mc); supercop-20210326
gcc23: 2 x 2000MHz; 2011 Cavium Octeon II CN6120; mips32; Octeon II (cmnips64v2); supercop-20221122
egrf0afz2: 2 x 2000MHz; 2011 Cavium Octeon II CN6120; mips32; Octeon II (cmnips64v2); supercop-20220213
tonido: 1 x 1200MHz; 2010 Marvell Armada 310; armeabi; Armada (562f1311); supercop-20170718
berry2: 4 x 900MHz; 2016 Broadcom BCM2836; armeabi; Cortex-A7 (410fc075); supercop-20221122
tblad: 1 x 1000MHz; 2012 TI Sitara XAM3359AZC1200; armeabi; Cortex-A8 (413fc082); supercop-20221005
novealab: 4 x 1200MHz; 2011 Freescale i.MX6 Quad; armeabi; Cortex-A9+NEON (412fc09a); supercop-20200702
artix: 4 x 1200MHz; 2012 Samsung Exynos 44127; armeabi; Cortex-A9+NEON (413fc090); supercop-20191221
novealab5: 4 x 1200MHz; 2011 Freescale i.MX6 Quad; armeabi; Cortex-A9+NEON (412fc09a); supercop-20191221
jetsonat1: 4 x 2065MHz; 2014 NVIDIA Tegra K1; armeabi; Cortex-A15 (413fc0f3); supercop-20170726
gcc116: 8 x 1600MHz; 2014 APM 88320B-X1; aarch64; X-Gene (500f0000); supercop-20171218
pi3aplus: 4 x 1400MHz; 2018 Broadcom BCM2837B0; aarch64; A53 (410f034); supercop-20221122
pi3aplus: 4 x 1400MHz; 2018 Broadcom BCM2837B0; aarch64; A53 (410f034); supercop-20221122
par3: 4 x 2000MHz; 2015 Amlogic S905; aarch64; A53+crypto (410f034); supercop-20170718
leptotatoupp8cc: 4 x 1512MHz; 2016 Amlogic S905X; aarch64; A53+crypto (410f034); supercop-20210604
geoglacra1dew: 4 x 1500MHz; 2018 NXP i.MX 8M; aarch64; A53+crypto (410f034); supercop-20191221
rengadefort838cc: 4 x 1512MHz; 2017 Rockchip RK3398; aarch64; A53+crypto (410f034); supercop-20221122
jetsonat1: 4 x 1734MHz; 2015 NVIDIA Tegra X1; aarch64; A57+crypto (418f071); supercop-20191017
warbaar: 8 x 2000MHz; 2016 AMD Opteron A1100; aarch64; A57+crypto (411f072); supercop-20200826
pi4b: 4 x 1500MHz; 2019 Broadcom BCM2711; aarch64; A72 (410f083); supercop-20221122
rp148butsu4: 4 x 1500MHz; 2019 Broadcom BCM2711; aarch64; A72 (410f083); supercop-20191221
a72: 2 x 2100MHz; 2015 Mediatek MT8173; aarch64; A72+crypto (418f080); supercop-20170904
pmo4146: 64 x 2500MHz; 2018 Cavium ThunderX2 CN9980; aarch64; ThunderX2 (431f0af1); supercop-20191017

Time

131072

262144

524288